

Renewable Energy and Environmentally Sustainable Design Case Studies

Monash Sustainability Institute - GIPV

Site:

Monash University, Building 74, Clayton Campus,
Melbourne, Victoria

Dates:

- System Design: March 2011
- System Installation: September 2011
- System Commissioned: September 2011

Client:

Monash University

Project Goals:

Upgrade of exiting PV system with additional PV panels and replacement inverter. Design, supply and install of a grid-connected power system for a university building.

Project Features:

- Dismantling of existing PV System.
- 20 x 190W Schott Solar PV panels (added to existing 9 x 150W BP panels).
- Standardised framing located on the roof.
- Sunnyboy SB 5000TL transformerless dual-input inverter.
- Sunny WebBox communication system.
- SMA Sensor Box to monitor solar radiation, wind speed and ambient air temperature.
- Complete system documentation including maintenance schedule and log sheets.
- Expanded system size: 5.15kW
- Expected output: 7120kWh/year

Project Team:

- Narayan Kafle, System Designer, Going Solar
- Duncan Macgregor, Lead Installer, Going Solar
- Andy Savage, Installer, Going Solar
- Oliver Crowder, Installer, Going Solar
- Glenn Robertson, Electrical Contractor

Further Information:

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PV Panels on Roof



Framing Support Rails, Conduit and Isolation Switches



Inverter and Isolation Switches

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Above: Detail of Rear of Panel

Left: Weather Station



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